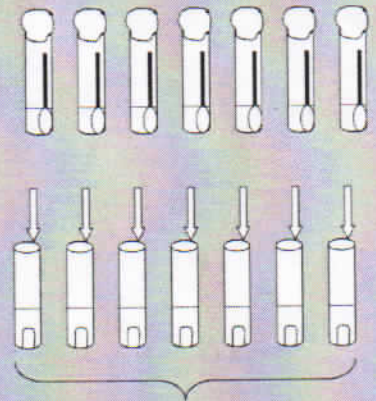


# SURVEI JUMLAH ANGKA KUMAN DAN IDENTIFIKASI *Escherichia coli* PADA ALAT MAKAN DI INSTALASI GIZI RUMAH SAKIT UMUM KOTA SEMARANG



Dwi Sutiningsih  
Fakultas Kesehatan Masyarakat Undip

Prosedur Pemeriksaan Bakteri *E. coli*



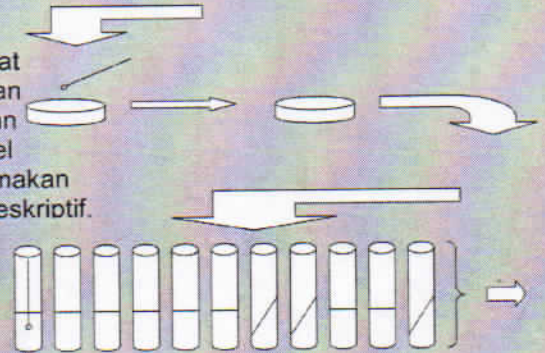
## PENDAHULUAN

Kontaminasi kuman pada peralatan makan dapat terjadi karena air bersih yang tercemar, praktik pencucian yang kurang baik, serta kurang tepatnya penanganan alat makan setelah pencucian. Makanan atau minuman yang disajikan dengan alat makan yang terkontaminasi *E. coli* dapat menimbulkan gangguan kesehatan pada manusia. Salah satu tempat yang memiliki derajat kontaminasi tinggi adalah rumah sakit. Pasien di rumah sakit sangat rentan terhadap penyakit, sehingga kebersihan alat makan harus diperhatikan. Tujuan dari penelitian ini untuk mengetahui jumlah angka kuman dan mengidentifikasi *E. coli* pada alat makan di Instalasi Gizi Rumah Sakit Umum Kota Semarang.



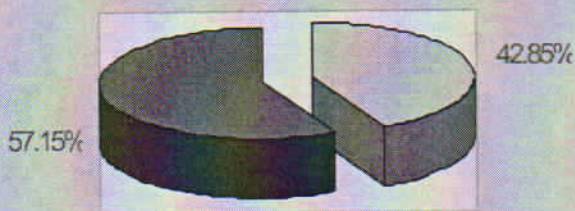
## METODE PENELITIAN

Penelitian ini merupakan penelitian deskriptif. Populasi dalam penelitian ini adalah semua jenis alat makan yang terdapat di instalasi gizi dan digunakan dalam pelayanan kepada pasien, yang dikategorikan dalam 7 kelompok alat makan. Pengambilan sampel secara *random sampling* dari setiap kelompok alat makan sebanyak 5 buah. Analisis data dilakukan secara deskriptif.



## HASIL DAN PEMBAHASAN

Hasil penelitian menunjukkan bahwa jumlah angka kuman tertinggi pada kelompok alat makan jenis sendok sebanyak  $2,55 \times 10^1$  koloni/cm<sup>2</sup> dan jumlah angka kuman nol pada kelompok alat makan jenis piring kecil. Selain itu, dari identifikasi *E. coli*, diperoleh hasil yang positif pada kelompok alat makan jenis piring nasi, plato *stainless steel* terbuka, plato *stainless steel* tertutup, dan sendok.



☐ Memenuhi persyaratan  
☒ Tidak memenuhi

Menurut Depkes (1987), alat makan harus memenuhi syarat kebersihan yaitu dengan pemeriksaan mikrobiologis pada alat makan diperoleh jumlah angka kuman kurang dari 100 koloni/cm<sup>2</sup> permukaan alat makan.<sup>3)</sup>

Berdasarkan pemeriksaan di laboratorium, semua kelompok alat makan yang diperiksa memenuhi persyaratan tersebut.

Gambar 1. Hasil Pemeriksaan Mikrobiologis Alat Makan Berdasarkan Keputusan Menteri Kesehatan RI No. 1204/MENKES/SK/X/2004

## KESIMPULAN DAN SARAN

- Hasil pemeriksaan jumlah angka kuman pada alat makan menunjukkan bahwa semua kelompok alat makan yang diperiksa mengandung jumlah angka kuman di bawah 100 koloni/cm<sup>2</sup> permukaan.
- Dari hasil identifikasi *E. coli* pada alat makan, diketahui ada 4 kelompok alat makan yang menunjukkan hasil positif terhadap keberadaan *E. coli*, yaitu piring nasi, plato *stainless steel* terbuka, plato *stainless steel* tertutup, dan sendok. Sedangkan kelompok alat makan jenis piring kecil, mangkuk, dan gelas menunjukkan hasil yang negatif terhadap keberadaan *E. coli*.
- Pertanya menerapkan praktik pencucian untuk semua alat makan sesuai dengan prosedur yang telah ditetapkan.







Organization of Indonesian Society for Microbiology (ISM) Surabaya Branch



International Union of Microbiological Societies



Indonesian Society for Microbiology



Indonesian Society for Microbiology (ISM) Surabaya Branch



Indonesian Society for Microbiology

# 10<sup>th</sup> Congress and International Conference Of Indonesian Society for Microbiology (ICISM)

Surabaya, November 20<sup>th</sup> - 21<sup>st</sup> 2009

## Certificate of Recognition

Recent Advance of Microbiology In Health, Bio-industry, Agriculture and Environment

Presented to

Dwi Surtiningsih, drh, M.Kes.

as

POSTER PRESENTATION

PERMI Accreditation (No. 14-SK-PERMI-X-2009)  
Participant 5, Lecturer 15, Moderator 5, Committee 3

*[Signature]*  
Prof. Dr. Haryanto Dhanutirto, Apt., DEA.  
Chairman of Indonesian Society for Microbiology

*[Signature]*  
Prof. Dr. Fedik Abdul Rantam, DVM.  
Chairman of Organizing Committee

# ABSTRACTS

10<sup>TH</sup> CONGRESS AND  
INTERNATIONAL CONFERENCE OF  
INDONESIAN SOCIETY FOR MICROBIOLOGY  
(ICISMI)

## RECENT ADVANCE OF MICROBIOLOGY IN HEALTH, BIO-INDUSTRY, AGRICULTURE AND ENVIRONMENT

JW. MARRIOTT HOTEL  
Surabaya, 20<sup>th</sup> -21<sup>st</sup> NOVEMBER 2009



Organization of  
Indonesia Society for Microbiology  
(ISM) Surabaya Branch



Institute of Tropical Disease  
Airlangga University (ITD UHAIR)



IUMS  
International Union of  
Microbiological Societies



American Society for Microbiology



Indonesian Society for  
Lactic Acid Bacteria

Foreword

Chairman of the Organizing Committee

Dear Participants,

On behalf of the Organizing Committee, I would like to extend my warmest welcome to all participants of 10<sup>th</sup> Congress and International Conference of Indonesian Society for Microbiology, 19<sup>th</sup> – 21<sup>st</sup> November 2009 with theme "The recent Advances of Microbiology in Health, Bio-industry, Agriculture and Environment".

It is expected that the conference will serve as a forum for promoting advanced microbiology, sharing experience and information, which will be of importance to the development of biotechnology base on microbiology with the regard to economic growth, social welfare and bio-safety.

The conference is attended 500 participants from national and international. Finally we thank to all of companies and institutions participate in the exhibition and joint in this conference.

I wish every success to all participants and I hope you still have spare time to enjoy Surabaya.

Prof. Fedik A. Rantam, DVM, Ph.D.

Chairman of Organizing Committee-ICISMI



## ORGANIZATION

### Steering Committee

Chairman : Prof. Dr. Harianto Danutirto, DEA.

Secretary : Dr. Ir. Koesnandar M.Eng.

Member : Prof. Amin Subandrio, MD., Ph.D.

Prof. Dr. Ir. Antonius Suwanto, MSc

Prof. Dr. Ir. Endang Sutriswati Rahayu, MSc.

Prof. Sam Suharto, MD, Sp.MK.(K)

Dr. Ir. Siswa Setyahadi

Dr. Nasronudin, MD. SpPD (K)

Prof. Dr. Kuntaman, M.S. MD (SpMK)

Prof. Dr. Fedik Abdul Rantam, DVM.

### Organizing committee

Chairman : Prof. Dr. Fedik Abdul Rantam, DVM

Secretary : Dra. Yenni Bakhtiar, M.Agr.Sc.,

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Purwati, MD., SpPD

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Fund : Ugroseno W.B., MD., SpPD, K-HOM

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Scientific : Dr. Suwarno, M.Si. DVM.

M. Inge Lucida MD., MS., Ph.D.

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Dr. Ir. Mahyudin Abdul Rachman, M.Eng.

Dr. Mirni Lamid, M.Kes. DVM.

Dr. Indah listiana Kriswandini, drg., MKes.

Drs. Nuki Bambang Nugroho, M.Si.

Chiquita Prahasanti, drg., SpPerio.

Agung Purwoko P, MD.

### Protokoler & Gathering Night:

Dr. Prihatini Widiyanti, drg, M.Kes.,

Hermawan Susanto, MD.

Silvi Maria Pantaow, MD

Dr. AT. Soelih Estoepangestie, DVM.

Dr. Erni Maduratna, drg. SpPer. M.Kes.

Wiwiek Tyas Ningsih, DVM, M.Kes

Erni Rosilawati Sabar Iman, MS., Drh.

Marijam Purwanta, Dra., MS.c.

Evi Silvia Awalia, MD.

Dani Irawan, MD.

## 10<sup>th</sup> Congress and International Conference of Indonesian Society for Microbiology

**Consumption** : Tutik Kusumaningsih, drg. M.Kes.  
Dr. Rahayu Anggraini, SKM., Msi  
Nanik Sianita, DVM, SU,  
Jola Rahmahani, DVM. M.Kes.,  
Soetji Prawestierini, DVM. SU.,  
Rr. Ratih Ratnasari, DVM. SU.,  
Hasutji Endah Narumi, DVM. MS.,  
Luki Agustina, MD.

**Publication and Documentation:**

Krisno Wiweka, MD.  
Agus Suprpto, MD.

**Accommodations and Transportation:**

Bayu Dharma S, MD.  
Budi Rahardjo, drg. M.Kes.  
Moh. Lutfi, drg. M.Kes.  
Soedarno, Ir., M.Kes.  
Noordiansyah, MD.

**Supply** : Mukti Arja Berlian, MD.  
Suryanie Sarudji, DVM, MKes.  
Adi Prijo Rahardjo, DVM. MSi  
Wartono SH  
Musyadi

**Secretariat and registration:**

Sidarningsih, M.Kes. drg,  
Wiwid Samsuhadi, MD.  
Hamidah, MD.  
Rini Devijanti, drg. M.Kes.,  
Dinar Adriaty, SSi, M.Kes  
Helen Susilowati, SKM  
Eryk Hendrianto, SSi.  
Ratna Wahyuni, SSi.  
Titi Savitri, S.S  
Anis Churillaili A.Md  
Annas Prasetyo Adi, S.Si

### Main Speaker

- Abdul Rahman Omar, DVM, Ph.D. Prof
- Abu Tholib Aman, MD, SpMK., Ph.D
- Agus Syarurachman, MD, Ph.D. Prof.
- Agus Masduki, M.Eng, Ph.D.
- Agustian, Ir. Dr.
- Anang Endaryanto, MD, SpA, Dr.
- Amin Subandrio, MD., Ph.D. Prof.
- AT Soelih Estoepangestie, DVM, Dr./Adi PH., DVM, MSi.
- Atsushi Yamanaka, Ph.D
- David P. Trudil, Ph.D.
- Djamani Hisbi, Dr. Prof.
- Debbie Retnoningrum, Apt., Ph.D.
- Endang Sutiswati Rahayu, Ph.D. Prof.
- Fedik A. Rantam, DVM, Ph.D. Prof
- Fera Ibrahim, MD., Ph.D.
- Friedhelm Meinhardt, Dr. Prof.
- Hari Besar Sosiawan, DVM, SU./Rosmelati S., DVM., M.Kes., Dr.
- I Nengah Sujaya, MD, Ph.D.
- Isnaini, Apt. Dr.
- Isworo Rukmi, Dra, M.Kes
- Irvan Priambodo, MSc. Ph.D.
- Karl-Heinz van Pee, MD, Ph.D. Prof.
- Katsuhiko Ando, Ph.D.
- Koesnandar, M.Eng, Ph.D.
- Kuntaman, MD, MSc., Ph.D. Prof.
- Maria Inge Lucida, MD, Ph.D
- Michael Schloemann, Ph.D. Prof.
- Mulyani, MD, Ph.D.
- Maryono, DVM
- Nur Hamdani, MD, Ph.D. Prof.
- Pratiwi Sudarmono, MD, Ph.D. Prof
- Purwati, MD., SpPD
- Puspita Lisdiyanti
- Ratih Dewanti, Ir. MSc. Ph.D.
- Retno Indrawati, Drg, M.Kes. Dr.
- Robert A. Heckert, BSc, DVM., Ph.D. CSOS.
- Renni SH. Suhardi, Ir. Ph.D.
- Suhardi, DVM
- Siswa Setyahadi, M.Eng. Ph.D.
- Sumarno, MD, DMM, Dr. Prof
- Sukanta Kumar Sen Ph.D., Prof.
- Suwarno, DVM, MSc., Dr.
- Saeri Sagiman, MSc. PhD.
- Sedamawati Yasni, Ir. M.Agr. Ph.D.
- Suharto, MD, MSc, DTMH, Ph.D. Prof
- Suyanto Prawiroharsono, Dr. Prof.
- Takako Utsumi, Ph.D
- Samkhan, DVM, MM.
- Usman Hadi, MD, SpPD., Ph.D.
- Wellyzar Sjamsuridzal, Ph.D
- Yasuhisa Tsurumi, Ph.D. Y
- Yoichi Fukushima, Ph.D



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**10<sup>th</sup> Congress and International Conference of Indonesian Society for Microbiology**

**TIME TABLE**

<b>10<sup>th</sup> CONGRESS AND INTERNATIONAL CONFERENCE OF INDONESIA SOCIETY FOR MICROBIOLOGY (ICISMI)</b>	
<b>NOVEMBER, 19<sup>th</sup> – 21<sup>st</sup>, 2009, JW MARRIOTT HOTEL SURABAYA</b>	
<b>SCIENTIFIC PROGRAM</b>	
<b>DAY 1</b>	
<b>Thursday, November 19<sup>th</sup>, 2009</b>	
<b>08.30-15.00</b>	<b>Workshop 1 / Workshop 2 (Sepsis in critical unit/ Biorisk, BEP-USA)</b>
<b>18.00-2200</b>	<b>Pra- Congress Meeting</b>
<b>DAY 2</b>	
<b>Friday, November 20<sup>th</sup>, 2009</b>	
<b>TIME (WIB)</b>	<b>PROGRAM</b>
<b>07.00-08.00</b>	<b>REGISTRATION</b>
<b>08.00-08.50</b>	<b>OPENING REMARKS</b>
<b>08.50-09.50</b>	<b>PLENARY LECTURE-1</b>
	<b>Chairpersons:</b> 1. Koesnandar, M.Eng. Ph.D. (BPPT/RISTEK)
	2. Maria Inge L. MD., Ph.D. (ITD-Unair)
	<b>Speakers:</b>
	1. Pratiwi Sudarmono, MD. Ph.D. Prof (Bacterial programmed cell death: A role in biofilm tolerance to antibiotics)
	2. Friedhelm Meinhardt, Dr. Prof. (Applied Genetics for Bioindustry Development)
	3. Abdul Rahman Omar, DVM, Ph.D. Prof (Genomic analysis of avian Influenza virus H5N1 – the present and future)
	4. Robert A. Heckert, BSc. DVM., Ph.D. (Laboratory Biorisk management )
<b>09.50-10-35</b>	<b>MAIN SYMPOSIUM</b>
<b>10.35-10.50</b>	<b>FILM/SLIDE</b>

# 10<sup>th</sup> Congress and International Conference of Indonesian Society for Microbiology

<b>10.50-11.50</b>	<b>BALLROOM A (Health)</b>
	<b>SYMPOSIUM - 1</b>
	<b>(Emerging disease and New therapy approach)</b>
	<b>Chairpersons:</b>
	1. Eddy Bagus Wasito, MD, MS., Dr..
	2. Bramantono, MD., SpPD.
	<b>Speakers:</b>
	1. <b>Prof. Agus Syarurachman, MD, Ph.D. Prof.</b> (What's new in TB, pathogenesis and the host and TB)
	2. <b>Suharto, MD, MSc, DTMH, Ph.D. Prof</b> (New treatment approach of HIV infection)
	3. <b>Kuntaman, MD, MSc. Ph.D. Prof.</b> (The potential role of metagenomics in clinical inf diseases) Discussion

<b>10.50-11.50</b>	<b>BALLROOM B (Agriculture)</b>
	<b>SYMPOSIUM - 2</b>
	<b>(Biodiversity of microbial)</b>
	<b>Chairpersons:</b>
	1. Mahyudin Abdul Rachman, M.Eng., Ph.D.
	2. Endang Pudjiastuti, DVM., M.Kes.
	<b>Speakers:</b>
	1. <b>Ratih Dewanti, Ir. MSc. Ph.D.</b> (Recent advances of applied microbial new generation of microbes and food technology).
	2. <b>Isworo Rukmi, Dra, M.Kes</b> (Aspergillus Biodiversity and Their Role in Industrial Enzyme Production: mini review)
	3. <b>Irvan Priambodo, MSc. Ph.D.</b> (The role of biodiversity of microbial) Discussion

<b>10.50-11.50</b>	<b>BALLROOM C (Bioindustry and Environment)</b>
	<b>SYMPOSIUM - 3</b>
	<b>(Megadiversity of fungi and actinomycetes in Indonesia, NITE-Japan)</b>
	<b>Chairpersons: (UI-JAPAN)</b>
	1. Siswa Setiadi, Ir. Ph.D.
	2. Prihatini Widiyanti, Drg, M.Kes. Dr.
	<b>Speakers:</b>
	1. <b>Katsuhiko Ando, Ph.D.</b> (Indonesia-NITE Joint research Project, NITE-Japan)
	2. <b>Yasuhisa Tsurumi, Ph.D.</b> (Ecology and taxonomy of fungi in Indonesia, NITE-Japan)
	3. <b>Puspita Lisdiyanti</b> (Distribution and Taxonomy of Actinomycetes In Indonesia)
	4. <b>Wellyzar Sjamsuridzal, Ph.D.,</b> (Ecological and taxonomical perspective of yeasts in Indonesia) Discussion

<b>11.50-13.15</b>	<b>FRIDAY PRAYER AND LUNCH</b>
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# 10<sup>th</sup> Congress and International Conference of Indonesian Society for Microbiology

13.15-14.15	<b>BALLROOM A (Health)</b>
	<b>SYMPOSIUM – 4</b> <b>(Clinical management of infectious disease)</b>
	<b>Chairpersons:</b>
	1. Abu Tholib Aman, MD., SpMK., Ph.D
	2. Erwin Astha Triyono, MD., SpPD.
	<b>Speakers:</b>
	1. Suharto, MD, MSc, DTMH, Ph.D.Prof (Recent management of H1N1 in critical care unit)
	2. Usman Hadi, MD. SpPD., Ph.D. (resistancy of antimicrobial pattern from bench to bedside: how to manage?)
	3. Purwati, MD., SpPD (The role of cytokine on DHF pathogenesis) Discussion

13.15-14.15	<b>BALLROOM B (Agriculture)</b>
	<b>SYMPOSIUM – 5</b> <b>(Probiotics and modulating of Immuns system)</b>
	<b>Chairpersons:</b>
	1. Yusak Nugraha, MD., SpPK., MS., Dr.
	2. Yenni Bakhtiar., M.Agr.Sc.
	<b>Speakers:</b>
	1. Yoichi Fukushima, Ph.D. (Probiotics and natural defence – optimal nutrition for protection in growing up milk)
	2. Anang Endaryanto, MD, SpA, Dr. (Probiotics and the role of T-cell regulators in the immune system)
	3. Isnaini, Apt. Dr. (Valldation of Bloautography Method for Determinan of Chloramphenicol) Discussion

13.15-14.15	<b>BALLROOM C (Bioindustry and Environment)</b>
	<b>SYMPOSIUM – 6</b> <b>(The new vaccine technology and vaccine industry)</b>
	<b>Chairpersons:</b>
	1. Rahayu Emawati, DVM, MSc. Dr.Prof.
	2. Suryanle Sarudji, DVM, M.Kes.
	<b>Speakers:</b>
	1. Fedik A. Rantam, DVM, Ph.D. Prof (The advantage of local isolate for vaccine development)
	2. Maryono, DVM (New approach of modern Vaccine technology)
	3. Suhardi, DVM (The best vaccine: how to use and choosing?) Discussion

# 10<sup>th</sup> Congress and International Conference of Indonesian Society for Microbiology

	<b>BALLROOM A (Health)</b>
14.15-15.15	<b>SYMPOSIUM - 7</b> <b>(Antimicrobial resistance)</b>
	<b>Chairpersons:</b>
	1. Ugroseno W.B, dr., SpPD, K-HOM
	2. Kriswandini E.L., Drg., M.Kes., Dr.
	<b>Speakers:</b>
	1. Fera Ibrahim, MD., Ph.D. (HIV genomics bench to bedside, HIV viral genetics resistance , clinical implication)
	2. Takako Utsumi, Ph.D (Genetic characterization of hepatitis B virus in Indonesia: East Java, East Kalimantan, Bali and Papua)
	3. Nur Hamdani, MD. Ph.D. Prof. (Emerging resistance in ocinetobacter baumannii update for 2009) or Multiresistance Acinetobacter : a world wide pandemic) Discussion

	<b>BALLROOM B (Agriculture)</b>
14.15-15.30	<b>SYMPOSIUM - 8</b> <b>(Influenza A viruses and biodiversity)</b>
	<b>Chairpersons:</b>
	1. Budi Rahardjo, Drg., M.Kes.
	2. Wiwiek Tyasningsih, DVM., M.Kes.
	<b>Speakers:</b>
	1. AT Soelih Estoepangestie, DVM, Dr./Adi PH., DVM, MSI. (The occurrence H5 and non-H5 influenza viruses in live birds markets.)
	2. Samkhan, DVM, MM. ( Sub Type H1N1 Influenza virus cross Indonesia)
	3. Hari Besar Soslawa, DVM, SU./Rosmelati S., DVM., M.Kes., Dr. (The role of biodiversity microbial for vaccine development)
	4. Widyasmara DVM, PhD., Prof. Discussion

	<b>BALLROOM C (Bioindustry and Environment)</b>
14.15-15.15	<b>SYMPOSIUM - 9</b> <b>(Microbial and Bioindustry Development)</b>
	<b>Chairpersons:</b>
	1. Lestanto U. Widodo, MSc.
	2. Ernie Maduratna, drg, M.Kes. Dr.
	<b>Speakers:</b>
	1. Agus Masduki, M.Eng, Ph.D. (The role of Enzyme exploration and applied to bioindustry)
	2. Siswa Setyahadi, M.Eng.Ph.D. (Application of biotechnology to Industrial sustainability)
	3. Renni SH. Suhardi, Ir. Ph.D. (Applied biotechnology on environment) Discussion
15.15-16.45	<b>FREE PAPERS/POSTERS</b>
15.15-17.15	<b>CONGRESS</b>
19.00-22.00	<b>GATHERING NIGHT</b>



**10<sup>th</sup> Congress and International Conference of Indonesian Society for Microbiology**

<b>DAY 3</b>	
<b>Saturday, November 21<sup>st</sup>, 2009</b>	
<b>TIME (WIB)</b>	<b>PROGRAM</b>
07.45-09.15	<b>PLENARY LECTURE-2</b>
	<b>Chairpersons:</b> 1. Endang Sutiswati Rahayu, Ph.D.Prof.
	2. Wellyzar Sjamsuridzal, Ph.D.
	<b>Speakers:</b>
	1. <b>Amin Subandrio, MD., Ph.D. Prof.</b> (avian Influenza : Current status in Indonesia and the world)
	2. <b>Karl-Heinz van Pee, MD. Ph.D.Prof.</b> (The role of halogenation enzymes for Bioindustry Development )
	3 <b>David P. Trudil, Ph.D.</b> (Biosafety Inovation on emerging and reemerging disease)
	4. <b>Michael Schloemann, Ph.D. Prof.</b> (Applied microbiology for Stress environment)
	5 <b>Astrid Raabe</b> (Study and Research in Germany)
	6. <b>Suyanto Prawiroharsono, Dr. Prof.</b> (The Role of Rhizopus oligosporus on Antioxidant Biosynthesis During Tempe Fermentation )
09.15 - 09.40	<b>COFFEE BREAK</b>

X

Perhimpunan Mikrobiologi Indonesia (PERMI) Cabang Surabaya  
 internationakonferencepermi2009.com email: permi\_surabaya@yahoo.co.id  
 Secretariat: Institute of Tropical Disease Airlangga University  
 Mulyorejo, Surabaya, East Java, Indonesia Phone and Fax: +62 31 5992445

# 10<sup>th</sup> Congress and International Conference of Indonesian Society for Microbiology

09.40-10.40	<b>BALLROOM A</b>
	<b>SYMPOSIUM – 10</b>
	<b>(Clinic and tropical disease) (BD)</b>
	<b>Chairpersons:</b>
	1. Nur Hamdani, MD., SpMK., Dr. Prof.
	2. Retno Pudji Rahayu, Drg., M.Kes. Dr.
	<b>Speakers:</b>
	1. <b>Maria Inge Lucida, MD. Ph.D</b> (The hepatitis B virus and antiviral drug resistance: Molecular aspect and their clinical consequences)
	2. <b>Atsushi Yamanaka, Ph.D</b> (Relationship between complement activity and disease severity in dengue fever and dengue hemorrhagic fever patients in Indonesia)
	3. <b>Sumarno, MD, DMM, Dr. Prof</b> (Addition molecule of Vibrio bacteria infection and their treatment) Discussion

09.40-10.40	<b>BALLROOM B</b>
	<b>SYMPOSIUM – 11</b>
	<b>(Microbial and drug exploration)</b>
	<b>Chairpersons:</b>
	1. Yenni Bhaktiar, Dra., MSc.
	2. Mariam Purwanta, Dra., MSc.
	<b>Speakers:</b>
	1. <b>Debbie Retnoningrum, Apt., Ph.D.</b> (New treatment strategy base on molecular pathogenesis of infectious disease) and bioindustry development)
	2. <b>Sukanta Kumar Sen Ph.D., Prof.</b> (extracellular red pigment from <i>monascus purpureus</i> in submerged culture : product optimization and purification)
	Discussion

09.40-10.40	<b>BALLROOM C</b>
	<b>SYMPOSIUM – 12</b>
	<b>(Microbial exploration and Food Technology)</b>
	<b>Chairpersons:</b>
	1. Isworo Rukmi, Dra, M.Kes
	2. Mirni Lamid, DVM., MP., Dr.
	<b>Speakers:</b>
	1. <b>Endang Sutiswati Rahayu, Ph.D.Prof.</b> (Recent advances of lactic acid on bioindustry development)
	2. <b>Koesnandar, M.Eng, Ph.D.</b> (Role of the <i>Lipomyces starkeyi</i> $\beta$ -glucosidase on the Direct Conversion of Cellulose into Ethanol)
	Discussion



	<b>BALLROOM A</b>
10.40-11.40	<b>SYMPOSIUM – 13 (Molecular Epidemiology on Emerging and Reemerging Diseases)</b>
	<b>Chairpersons:</b>
	1. Zaki Mubarak, Drg. MSc.,
	2. Chiquita, Drg, M.Kes. SpPerio.
	<b>Speakers:</b>
	<b>1. Abu Tholib Aman, MD. SpMK.,Ph.D</b> (Recent advances of molecular virology on emerging and reemerging disease)
	<b>2. I Nengah Sujaya, MD. Ph.D.</b> (The role of pathogenesis of infection and diagnostic development for detection of emerging and reemerging disease)
	<b>3. Suwarno, DVM, MSc., Dr.</b> (Nucleoprotein gene analysis of rabies virus isolates cross Indonesia to design of vaccine candidate)
	<b>Discussion</b>

	<b>BALLROOM B</b>
10.40-11.40	<b>SYMPOSIUM – 14 (Microbiology and Feed Technology)</b>
	<b>Chairpersons:</b>
	1. D.Y. Riyanto, dr.
	2. Jolah Rahmahani, DVM, M.Kes.
	<b>Speakers:</b>
	<b>1. Mulyani, MD.Ph.D.</b> (Participation phenom of nonribosomal peptide synthetase/polyketait syntase (NRPS/PKS)
	<b>2. Retno Indrawati, Drg, M.Kes. Dr.</b> (Recent advances and the role of probiotic in oral medicine)
	<b>3. Sedamawati Yasni, Ir, M.Agr. Ph.D.</b> (Recent advances and the role of Natural medicine)
	<b>Discussion</b>

	<b>BALLROOM C</b>
10.40-11.40	<b>SYMPOSIUM – 15 (Environment Stress and Remediation)</b>
	<b>Chairpersons:</b>
	1. Abdul K Parlindungan Ir. MSc.
	2. Titiek Berniyanti, Drg, M.Kes., Dr.
	<b>Speakers:</b>
	<b>1. Djamani Hisbi, Dr. Prof.</b> ( The occurrence of vibrio bacteria on the growing shrimp larvae)
	<b>2. Saeri Sagiman, MSc. PhD.</b> (The role of microbiology on stress environment)
	<b>3. Agustian, Ir. Dr.</b> (Applied of Geo microbiology as Indicator of stress environment)
	<b>Discussion</b>

11.40-13.10	<b>FREE PAPERS/POSTERS</b>
13.10-13.50	<b>LUNCH</b>
13.50-13.55	<b>CLOSING CEREMONY</b>
13.55-14.00	<b>DOORPRIZE</b>

## Main Speaker Abstracts List

Name	Title
Abdul Rahman Omar	Genomic analysis of avian influenza virus H5N1 – the present and future
Agus Masduki	The Enzymatic production of fatty alcohol from palm oil (CPO or PKO)
Anang Endaryanto	Probiotics and the role of Treg in immune system.
Atsushi Yamanaka	Relationship between complement activity and disease severity in dengue fever and dengue hemorrhagic fever patients in Indonesia
Fera Ibrahim	HIV genomics bench to bedside, HIV viral genetic resistance, clinical implication
Friedhelm Meinhardt	Applied Genetics for Bioindustry Development
Fedik A. Rantam	The advantage of local isolate for vaccine development
Isworo Rukmi	Aspergillus Biodiversity and Their Role in Industrial Enzyme Production: mini review
Karl-Heinz van Pée	The role of halogenation enzymes for Bioindustry Development
Katsuhiko Ando	Indonesia-NITE Joint Research Project
Koesnandar	Role of the <i>Lipomyces starkeyi</i> $\beta$ -glucosidase on the Direct Conversion of Cellulose into Ethanol
Kuntaman	The Potential role of metagenomics in clinical infectious diseases
Maria Inge Lusida	The hepatitis B virus and antiviral drug resistance: Molecular aspect and their clinical consequences
Purwati	The role of cytokine on DHF pathogenesis
Puspita Lisdiyanti	Distribution and Taxonomy of <i>Actinomyces</i> in Indonesia
Retno Indrawati	Signal transduksi antara host dengan bakteri probiotik dalam memodulasi Sistem Imun untuk menurunkan prevalensi karies
Siswa Setyahadi	APPLICATION OF BIOTECHNOLOGY TO INDUSTRIAL SUSTAINABILITY
Suhardi	The best vaccine: how to use and choosing
Suharto	New treatment approach of HIV infection
Sukanta Kumar Sen	Extracellular red pigment from <i>monascus purpureus</i> in submerged culture : product optimization and purification
Sumarno	The Role of Bacterial Molecule Adhesion in Developing the Tool of Diagnose and the Vaccine of Bacterial Infectious Disease
Suwarno	Nucleoprotein gene analysis of rabies virus isolates cross Indonesia to design of vaccine candidate
Suyanto Pawiroharsono	The Role of <i>Rhizopus oligosporus</i> on Antioxidant Biosynthesis During Tempe Fermentation
Takako Utsumi	Hepatitis B Virus Infection in East Java, East Kalimantan, Bali and Papua
Yasuhisa Tsurumi	Ecology and taxonomy of fungi in Indonesia
Usman Hadi	Resistance of Antimicrobial pattern from Bench to Bedside:How to manage
Wellyzar Sjamsuridzal	Ecological and taxonomical perspective of yeasts in Indonesia
Yoichi Fukushima	Probiotics and Natural Defence -Optimal Nutrition for Protection in Growing Up Milk-
Yenni Bakhtiar	Isolation and Identification Using 16S DNA of Endosymbiotic Mycorrhizal Bacteria From Spores of Arbuscular Mycorrhizal Fungi and Their Antagonistic Effect on Fungal Pathogen <i>Ganoderma boninense</i> In Vitro



Health				
Oral Presentation				
No	Name	Institution	Title	Code
01	Ana Indrayati	School of Pharmacy ITB	Cloning of Gene Encoding for Super Oxide Dismutase of <i>Shigella boydii</i> from Indonesia	OK 01
02	Cherry Siregar	Airlangga UniVersity	Efek asam butirat sebagai hasil fermentasi karbohidrat oleh mikroflora kolon terhadap ekspresi p53 dan apoptosis pada sel epitel kolon mencit balb/c jantan setelah diinduksi 9,10-dimethyl-1,2-benz(a)anthracene	OK 02
03	Haryono Utomo	Faculty of Dentistry	The Increase of Allergic Reaction in Ovalbumin-Induced Allergic Rats Stimulated with Lipopolysaccharide from <i>Porphyromonas gingivalis</i>	OK 03
04	Heni Susilowati	Gadjah Mada UniVersity	Nuclear Translocation of NF- $\kappa$ B induced by <i>Streptococcus intermedius intermedius</i>	OK 04
05	Henny Saraswati	Institute of Human Virology of University of Indonesia (IHVCB UI)	Pengklonan, Ekspresi dan Purifikasi Protease Human Immunodeficiency Virus Type I	OK 05
06	Heri Setiadi	Indonesia University	Identification and characterization of antagonistic bacteria against <i>Fusarium sp</i> employing 16S rDNA sequence Analysis	OK 06
07	Maryani	Sebelas Maret University	Daya antibakteri ekstrak rimpang kunyit ( <i>Curcuma domestica</i> Val.) terhadap <i>Neisseria gonorrhoeae</i> isolat klinis	OK 07
08	Muhammad Ali Sodikin	Jember UniVersity	Antimicrobial Activity of Etanol Extract of Mahkota Dewa ( <i>Phaleria macrocarpa</i> ) Fruits And Leaves Against <i>Pseudomonas aeruginosa</i>	OK 08
09	Ratih Asmana Ningrum	School of Pharmacy ITB	Development Of Mutein interferon alpha 2b with more negatively charged of protein using site directed mutagenesis approach	OK 09
10	Retno Puji Rahayu	Airlangga University	The Genetic Relationship of <i>C. albicans</i> between Diabetes Mellitus patients and Non-DM with Oral Candidiasis	OK 10
11	Sri Muwami	Brawijaya University	Kemampuan Adhesin 61 kDa Outer Membrane Protein <i>Chlamydia pneumoniae</i> Dalam Mengaktivasi Makrofag	OK 11
12	Sukanta Kumar Sen	Visva-Bharati University, Santiniketan, India	Extracellular Red Pigment From <i>Monascus Purpureus</i> in Submerge Culture: Product Optimization And Purification	OK 12
13	T. Mirawati Sudiro	Indonesia University	Ekspresi dan purifikasi protein fusi GST-DENV2NS1	OK 13
14	Tedjo Sasmono	Novartis-Eijkman Hasanudin Clinical Research Initiative (NEHCRI)	Genom sequencing and phylogeny of dengue viruses isolated from Makassar-Indonesia	OK 14
15	Widhianto Tricahyadi	Gadjah Mada University	Application of ribosome inactivating protein (RIP) isolated from <i>Annona squamosa</i> L. seed as alternative Mycoplasmaicide	OK 15
16	Yenni Bakhtiar	Badan Pengkajian dan Penerapan Teknologi	Isolation and Identification Using 16S DNA of Endosymbiotic Mycorrhizal Bacteria From Spores of Arbuscular Mycorrhizal Fungi and Their Antagonistic Effect on Fungal Pathogen <i>Ganoderma boninense</i> In Vitro	OK 16
17	Yogiara	School of Biotechnology, Atma Jaya Catholic University of Indonesia	The assessment of bacterial community associated with housefly's gut ( <i>Musca domestica</i> ) using terminal Restriction fragment length polymorphisms	OK 17
18	Yuli Hermansyah	Jember University and RSD Dr Soebandi Jember	Apakah pemberian kortikosteroid pada pasien dengue haemorrhagic fever (DHF) dewasa bermanfaat?	OK 18
19	Zulfikar Syam Bani Ulhaq	Brawijaya University	Efek Ekstrak Kulit buah Jeruk Purut ( <i>Cytrus hystrix</i> DC) terhadap kolonisasi <i>Salmonella thypimurium</i> di ileum Mencit (upaya untuk mendapat kandidat obat demam tifoid)	OK 19



Poster Presentation				
No	Name	Institution	Title	Code
01	Aditya Perkasa	Institute of Human Virology of University of Indonesia (IHVCB UI)	Konstruksi dan Ekspresi Vektor Rekombinan Untuk Menghasilkan Protein Rekombinan Matriks (M) Virus Avian Influenza A Subtype H5N1	PK 01
02	Adriansjah	University of Indonesia	Assessment of transcriptional responses in <i>Bacillus subtilis</i> cells to an antibiotic, enduracidin, interfering with cell wall synthesis, by using a high-density tiling chip	PK 02
03	Adrianto budiharjo	Airlangga University	Difference of lemon essential oil content effectiveness for inhibiting <i>Candida albicans</i> Growth	PK 03
04	Afiono Agung Prasetyo	Sebelas Maret University	HIV, HCV and HBV Transgender Communities in Surakarta Indonesia	PK 04
05	Agnesia Endang Tri Hastuti Wahyuni	Gadjah Mada University	Characterization of <i>bacillus anthracis</i> isolated from ostrich in Indonesia	PK 05
06	Any Fitriani	Indonesia University	In Vitro Activity <i>Ageratum conyzoides</i> L. extract Againsts <i>Candida albicans</i> and <i>Trichophyton mentagrophytes</i>	PK 06
07	Asnah Hidayati	Brawijaya University	Overexpression and purification of gene pab from <i>Mycobacterium tuberculosis</i> isolated from endemic area	PK 07
08	Betty Suryawati	Sebelas Maret University	Antibiotic Coresistance Among Extended Spectrum- $\beta$ -lactamase Producing <i>Escherichia Coli</i> and <i>Klebsiella pneumoniae</i> of DR Moewardi Hospital Surakarta	PK 08
09	Budiman Bela	Institute of Human Virology of University of Indonesia (IHVCB UI)	Pengembangan Vaksin HIV-1: Optimasi Pasangan Primer Gag HIV AE_CR01 Untuk Sintesis Fragmen Gag HIAV-1	PK 09
10	Chanif Mauladi	Brawijaya University	The Effect of Formalin Exposure and Yogurt Supplementation on Profile and Character of Rats Hepar Tissue Protein	PK 10
11	Conny Riana Tjampakasari	University of Indonesia	Antimicrobial Activity of Disinfectants and Antiseptics on the microorganisms in the human skin flora in laboratory of Clinical Microbiology, faculty of Medicine, University of Indonesia during 2006-2009	PK 11
12	Dadang Suhendar	Agency for the Assessment and Application of Technology (BPPT)	Produksi Xilooligosakarida dari Tongkol Jagung dengan <i>Xilanase Bacillus subtilis</i> AQ1	PK 12
13	Dahliatul Qosimah	Brawijaya University	The Characterization Of Profile of Avian Influenza A H5N1Virus Protein with Anti H5N1 Antibody from homolog Vaccine and Heterolog	PK 13
14	Diana Chusna Mufida	Jember University	Outer Membrane Protein 39 kDa of <i>Proteus mirabilis</i> as Hemagglutinin and Adhesin	PK 14
15	Dinar Adrianty	Institute of Tropical Disease Airlangga University (ITD UNAIR)	Free Living Amoeba as a Potential Reservoir for Mycobacteria in Environment	PK 15
16	Dini Agustina	Jember University	Qualitative Study of <i>Escherichia coli</i> In Mineral Water Refill Center in Sumbersari Jember	PK 16
17	Dwi Surtiningsih	Diponegoro University	The Number of Germ and Identify He Existence of <i>Escherichia coli</i> of Eating Utensil at Nutrition Installation of Semarang Public Hospital	PK 17
18	Ekawati Betty Pratiwi	Institute of Human Virology of University of Indonesia (IHVCB UI)	Pengklonan Gen APOBEC3G ke Dalam Vektor Ekspresi pQE- Trisystem dan pQE-80L	PK 18
19	Enny Suswati	Jember University	Potention of Outer Membrane Protein (OMP) 28 kDa of <i>Salmonella typhi</i> to Inhibit Adhesi on Wistar Mice's Enterocyt	PK 19
20	Erma Safitri	Airlangga University	Unnatural Forced Moulting In The Layer Hen As Caused Of Zoonosis From <i>Salmonella enteritidis</i>	PK 20
21	Hartiyowidi Yulawuri	Institute of Human Virology of University of Indonesia (IHVCB UI)	Pengembangan Primer Untuk Diagnostik HIV-1 di Indonesia	PK 21
22	Kurnia Fitriastuti	Diponegoro University	Anticancer Activity Test of Palmitat Oleic and Steric Acid by Brine Shrimp Lethality Test (BSLT) Methods and in vitro to Mieloma Cell Culture	PK 22



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23	Lilis Suryani	Muhammadiyah University Yogyakarta	Efektifitas <i>Bacillus thuringiensis</i> yang Diisolasi Dari Sample Tanah di Yogyakarta Sebagai Larvasida <i>Aedes aegypti</i> invitro	PK 23
24	Maria Goretti M. Purwanto	University of Surabaya	Natural Product Potential for Antigene Strategy	PK 24
25	Martha Evina	Widya Mandala Surabaya Catholic University	Germicidal Effect of cajuputi volatile oil and its distillation waste water against <i>Streptococcus pyogenes</i>	PK 25
26	Ratna Wahyuni	Institute of Tropical Disease Airlangga University (ITD UNAIR)	<i>Mycobacterium leprae</i> Pada Sumber Air Rumah Penderita dan Non Penderita di Daerah Endemis Kusta Jawa Timur	PK 26
27	Suratno Lulut Ratnoglik	Institute of Human Virology of University of Indonesia (IHVCB UI)	Penentuan Sekuen Konsensus Protease dan Reverse Transcriptase Human Immunodeficiency Virus Tipe I Isolat Indonesia Dari Jakarta Untuk Desain Vaksin HIV/AIDS	PK 27
28	Tri Wulandari Kesetyaningsih	Muhammadiyah University Yogyakarta	Prevalence Distribution of Intestinal Parasite Infestation in Under Five Years Children With Severe Malnutrition in Kasihan Bantul Yogyakarta Based on Risk Factor	PK 28
29	Utami Sri Hastuti	State University of Malang	Hepatotoxicity of patulin and citrinin with some doses to the structure and ultra structure damage of mice ( <i>Mus musculus</i> ) hepatocyte	PK 29
30	Valentina Yurina	School of Pharmacy - ITB	Overproduction, Purification, and Crystallization o Recombinant ABS M1 Protein From <i>Streptococcus pyogenes</i>	PK 30
31	Yanti Maryanti	Chemical Engineering Department Politeknik Negeri Malang	Effort to Using the Potential Material Bioactive Golden Teak Leaves <i>Tectona grandis</i> With Fermentation Method	PK 31
32	Yunita Armiyanti	Jember University	Pengaruh Minyak Buah Merah ( <i>Pandanus conoideus</i> ) Terhadap Stress Apoptosis Sel Endotel Yang Dipapar Dengan Serum Penderita Malaria <i>Falciparum</i> Dan Netrofil	PK 32
33	Reviany V. Nidom	Airlangga University	Antiviral Activity of 5 Indonesian Plants against Avian Influenza Virus Subtype H5N1	PK 33

Industry				
Oral Presentation				
No	Name	Institution	Title	Code
01	Arie Wicaksono	Diponegoro University	Isolation and Characterization Thermophilic Proteolytic Bacteria Producer Extracellular Protease from Lapindo Mud, Sidoarjo	OI 01
02	Artini Pangastuti	Sebelas Maret University	Analyses of Bacterial Communities Associated with White Shrimp ( <i>Litopenaeus vannamei</i> ) Larvae During Developmental Stage	OI 02
03	Asman Burhanudin	Airlangga University	Validasi Metode KLT-Densitometri Untuk Penetapan Kadar Gentamisin dalam Sediaan Tropikal	OI 03
04	Budiasih Wahyuntari	Padjadjaran University	Optimization of Agitation and Aeraton in Microbiological Chitin Extraction Process Using Response Surface Methodology	OI 04
05	Diana Nurani	Agency for the Assessment and Application of Technology (BPPT)	Application of Microbe Consortia on the Production Of Corn In Peatsoil	OI 05
06	Elok Zubaidah	Brawijaya University	Study of Probiotic Bacteria Growth ( <i>Lactobacillus casei</i> and <i>Lactobacillus plantarum</i> B2) in Soy Milk and Skim Milk Fermentation Medium	OI 06
07	Gregorius Antonov Wangke	Satya Wacana Christian University Salatiga	Pigment analyzing are usings high performance liquid chromatography (HPLC) and spectrophotometry	OI 07
08	Hardaning Pranamuda	Agency for the Assessment and Application of Technology (BPPT)	Selective Methods for Isolation of Rare Actinomycetes from Indonesian Soil Samples	OI 08
09	Hermin Pancasakti Kusumaningrum	Diponegoro University	Transformation of Autotrophic Into Heterotrophic Microalgae by Cell Biotechnology to Increase Lipid Production For Biodiesel Source From Blooming Microalgae	OI 09
10	Ignatius Srianta	Widya Mandala Surabaya Catholic University	Production of Polyunsaturated Fatty Acid with <i>Rhizomucor Miehei</i> by Submerged Fermentation	OI 10
11	Indah Kuswardhani	Widya Mandala Catholic University Surabaya	Optimization of Soy Milk – Sweet Corn Milk Proportion and Alginate Concentration for Entrapping <i>Lactobacillus plantarum</i> 12A2 On Non Dairy Probiotic Ice Cream	OI 11
12	Kartika Senjarini	Jember University	Molecular Characterization of Bacterial Isolates from the Coastal Region of Watu Ulo Jember: Diversity and Carbon Substrates Utilization	OI 12
13	Meliana Susanti	Airlangga University	Validasi Metode Autobiografi Untuk Determinasi Kloramfenikol	OI 13
14	Niknik Nurhayati	Agency for the Assessment and Application of Technology (BPPT)	Cloning of $\alpha$ -L-Arabinofuranosidase Gene of <i>Bacillus licheniformis</i> CW1 and <i>Bacillus subtilis</i> DB104 and partial Characterization of Their Recombinant Enzymes	OI 14
15	Osfar sjoftan	Brawijaya University	The effect of Incubation Time of Tapioca Liquid Waste Fermentation by <i>Candida utilis</i> on Production Characteristic of Single Cell Protein	OI 15
16	Puspita Lisdiyanti	Research Center for Biotechnology, Indonesian Institute of Sciences	Biodegradasi Senyawa Hidrokarbon Polisiklik Aromatik dan Biosurfaktan Minyak Mentah oleh Bakteri Laut Indonesia	OI 16
17	Rini Primadewi, Rr	Center for Bioindustrial Technology BPPT	Peningkatan Produksi 1,3 Propandiol Pada <i>Bacillus pumilus</i> dengan Mutagen Nitrosoguanidine (NTG)	OI 17
18	Rita Khairina	Lambung Mangkurat University	Isolasi dan Identifikasi Bakteri Asam Laktat pada Tape Biji Teratai ( <i>Nymphae pubescens</i> Willd)	OI 18
19	Tan Watumesa	Atma Jaya Catholic University of Indonesia	Determination Of Discoloration And Odor Spoilage-Causing Bacteria In Nata De Coco As Revealed By Molecular Fingerprinting And 16s rDNA Analysis	OI 19
20	Tati Barus	Atma Jaya Catholic University	Metagenom Analysis of Bacteria Diversity in Tempe by Terminal Restriction Fragment Length Polymorphism (T-RFLP)	OI 20



Poster Presentation				
No	Name	Institution	Title	Code
01	Ambarwati Langkah Sembiring	Muhammadiyah University of Surakarta	Antibiotic Produced by <i>Streptomyces</i> with <i>Rhizosphere</i> of Purple Nut Sedge ( <i>Cyperus rotundus</i> L)	PI 01
02	Anna Rosdiana	Brawijaya University	<i>Mucor miehei</i> Lipase Immobilized in Polypropylene and Polyethylene Applied in Lactocyl Oleate Synthesis	PI 02
03	Arie Srihardyastutie	Brawijaya University	Study Activity of Immobilized Lipase <i>Mucor miehei</i> for Lactocyl Oleate Production	PI 03
04	Arina T.L.	Diponegoro University	Isolation and Characterization of Yeast with Inulinase Activity from Dahlia Tuber	PI 04
05	Inge Libertiana	Brawijaya University	Protease Activity of Proteolytic Bacteria Isolated from <i>Coturnix japonica</i> Digestive Tract in Soy Bean Meal Medium	PI 05
06	Irma Kresnawati	Agency for the Assessment and Application of Technology (BPPT)	Konversi Limbah Tandan Kosong Kelapa Sawit (TKKS) Menjadi Etanol Dengan Cara Kimia dan Biologi	PI 06
07	M. Risman	Universitas Al-Azhar Indonesia	Characterization of <i>Spirulina platensis</i> Mutants for the Production of Algaeoil	PI 07
08	Nurhayati	Diponegoro University	Production Inulinase <i>Kluyveromyces marxianus</i> DUC- Y-003 by Dahlia Flour	PI 08
09	Nurosid	Jenderal Sudirman University	Isolasi dan Identifikasi <i>Azotobacter vinelandii</i> dari Rhizosfer serta Uji Potensi untuk Memproduksi Biopolimer Alginat	PI 09
10	Parnidi	Bandung Institute of Technology	The Potential of <i>Bacillus cereus</i> Biofertilizer Sediment Based to Growth Response and Productivity of Paddy Rice ( <i>Oryza sativa</i> ) cv. Situ Bagendit	PI 10
11	Ratu Safitri	Padjajaran University	Hydrolyzing and Fermentation conditions for the production of ethanol from Sago Starch using <i>Saccharomyces cerevisiae</i> FNCC 3012 and <i>Cassava</i> <i>Tapai</i> -Isolated Bacterial	PI 11
12	Stella Magdalena	Atmajaya Catholic University of Indonesia	Isolation Production and Antibiotic Purification of <i>Streptomyces</i> from Soil Ecosystem	PI 12
13	Suraya	Bandung Institute of Technology	Amylase Production by <i>Aspergillus niger</i> Using Raw Starch	PI 13
14	Winda Kusuma Wardhani	Brawijaya University	Amylase Activity of Amylolytic Bacteria Isolated from <i>Coturnix japonica</i> Digestive Tract in Corn Flour Medium	PI 14



Agriculture				
Oral Presentation				
No	Name	Institution	Title	Code
01	Bambang Marwoto	Agency for the Assessment and Application of Technology (BPPT)	Genetic Diversity of Slow Growth Fungi Isolated From Indonesian Soil Samples by Microplate Method	OP 01
02	Dudi Hardianto	Agency for the Assessment and Application of Technology (BPPT)	Cloning, Expression and Characterization of Regulator Protein for Lovastatin Biosynthesis In <i>E.coli</i>	OP 02
03	Erwahyuni	Agency for the Assessment and Application of Technology (BPPT)	Anticancer activity of Endophytic fungi <i>Curvularia lunata</i> BioMCC-FE00283 isolated from Cibotium barometz	OP 03
04	Fachrurrozi	Indonesian Institute of Science	Isolation and Identification of Filamentous Fungi From Liwa Botanical Garden, South Sumatra, Indonesia	OP 04
05	Happy Widiastuti	Balai Penelitian Bioteknologi Perkebunan Indonesia	Biokonversi Tandan Kosong Kelapa Kawit (TKKS) Menjadi Etanol Secara Biologi	OP 05
06	Inggrid S. Surono	Southeast Asian Ministers of Education Organization (SEAMEO)-Tropical	Effect of oxygenated water and probiotic administration on fecal microbiota of rats	OP 06
07	Irvan Faizal	Agency for the Assessment and Application of Technology (BPPT)	Molecular Identification of fungal Plant Disease on Binahong ( <i>Anredera cordifolia</i> )	OP 07
08	Maria Ulfah	Agency for the Assessment and Application of Technology (BPPT)	Cloning and Sequencing of Lipase Gene of <i>Bacillus subtilis</i> DB 104 In <i>Escherichia coli</i> DH5a	OP 08
09	Mia Miranti Wardono	Padjajaran University	Patogenesitas <i>helicoverpa armigera</i> nuclear polyhedrosis virus (HaNPV) hasil tingkat subculture pada larva <i>Helicoverpa armigera</i>	OP 09
10	Ni'matuzahroh	Airlangga University	Exploration of Polyaromatic Hydrocarbonoclastic Microbes From Oil Polluted Soil	OP 10
11	Nuki Bambang Nugroho	Agency for the Assessment and Application of Technology (BPPT)	The Correlation of soybean Flour Concentration with antifungal Activity of an Endophytic Fungi Isolated from <i>Curcuma xanthorrhiza</i> Root	OP 11
12	Penta Suryaminarsih	UPN VETERAN East Java	The Exploration of <i>Actinomyces</i> as Biological Control of <i>Fusarium Wilt</i> Diseases on Tomato at East Java	OP 12
13	Rofiq Sunaryanto	Agency for the Assessment and Application of Technology (BPPT)	Study of Screening and Isolation Antibiotic From Marine <i>Actinomyces</i> (isolate A11)	OP 13
14	Shanti Ratnakomala	Indonesian Institute of Science	Utilization of Cellulose Producing Enzyme <i>Actinomyces</i> in The Local Plant Biomass Composting	OP 14
15	Tini Surtiningsih	Airlangga University	The Influence of Nitrogen Fixation Bacteria <i>Azotobacter chroococcum</i> and <i>Beijerinckia indica</i> as Biofertilizer to Red Spinach ( <i>Alternanthera ficoidea</i> L.) Growth	OP 15
16	Triadiati	Bogor Agricultural University	Soybean Var. Tanggamus Production Inoculated By <i>Bradyrhizobium japonicum</i> Tolerant Acid-Aluminium in Acid Soil	OP 16
17	Vita Ratri Cahyani	Sebelas Maret University	Exploring the Diversity of Mn-oxidizing Bacteria in Mn nodules in Paddy Fields by PCR-Denaturing Gradient Gel Electrophoresis Analysis Followed by Sequencing of 16S rDNA and Cultivation Method	OP 17
18	Widyatmani Sih Dewi	Sebelas Maret University	Sustainable Paddy Field Productivity : Empowerment of Paddy Field Biota Based on System of Rice Intensification (SRI) Using Vermicompost	OP 18
19	Yantyati Widyastuti	Indonesian institute of Science	<i>Actinomyces</i> in Cibinong Science Center	OP 19
20	Yeti Darmayati	Indonesian Institute of Science	The Effect Fertilizer Addition to the Removal of Oil Compound in Well System Of Experimental oil Split in Pari island	OP 20



Poster Presentation				
No	Name	Institution	Title	Code
01	Adi Basukriadi	University of Indonesia	The Wild Asiatic Honey Bee <i>Apis cerana</i> Fabr. Foraged on Flowers of <i>Jatropha integerrima</i> Jacq. and Its Associated Yeasts	PP 01
02	Anik M. Hariati	Brawijaya University	Isolation and Identification of Indigenous Bacterial as a Biological Probe Based on Nitrification Enzymes	PP 02
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**THE NUMBER OF GERM SURVEY AND IDENTIFY THE EXISTENCE OF  
*Escherichia coli* OF EATING UTENSIL AT NUTRITION INSTALLATION OF  
SEMARANG PUBLIC HOSPITAL**

**Dwi Sutiningsih**

Public Health Faculty, Diponegoro University

Email : [dwisningsih@yahoo.co.id](mailto:dwisningsih@yahoo.co.id)

**Abstract**

The germ contamination of eating utensil can be caused by polluted water, uncorrect washing practice, and treatment after washing practice. Food or beverage preserved on eating utensil which contaminated by *E. coli* can cause on health problem of human being. A place with the high degree contamination is hospital. Patient in the hospital is very sensitive for the infection, so the hygiene of eating utensil became very crucial.

This research aims were to know the number of germ and identify the existence of *E. coli* on eating utensil at Nutrition Installation of Semarang Public Hospital.

This research was descriptive research using survey method and cross sectional approach. The population in this research was all types of eating utensil at nutrition installation and used to service to the patient, which categorized by 7 groups. Sample was taken by simple random sampling and each group consist of 5 pieces. Data was analysed by descriptive.

The result of this research indicated that all types of eating utensil contain the number of germ under 100 colony / cm<sup>2</sup> surface eating utensil, while from identifying *E. coli* indicated that 4 from 7 groups of eating utensil show the existence of *E. coli* which are positive. The conclusion was that eating utensil group fulfilling hygiene standard covering : small plate, bowl, and glass. The other eating utensil group like : rice plate, opened stainless steel plate, closed stainless steel plate didn't fulfill the hygiene standard, so they were improper to use.

Food organizer ought to improve the washing practice according to the procedure. Besides, the hospital should provide clean water which qualified.

**Keywords** : amount of germ, *E. coli*, eating utensil